High Temperature Data Logger, Temperature Chart Recorder

A high temperature data logger

In many industries there is a need to monitor heaters' or ovens' temperature over time. Many companies employ high temperature data loggers and temperature chart recorders since even small temperature changes, if unnoticed, can cause serious problems.

This is true even for small businesses - a high temperature data logger can be as useful for a small bakery as for a large manufacturing plant.

Installing and operating a high temperature data logger (tips)

Installation and set up may require no more than an hour from the moment you take a high temperature data logger out of its box to the moment it becomes operational. This largely depends on the high temperature data logger selected. Some data loggers require programming which can require a great deal of effort especially if you must learn how the software works.

Here are a few things you should keep in mind during the purchase and the installation:

(1) A high temperature data logger will not display the collected information at the site but will need a PC to view the data.

(2) If you chose a temperature chart recorder, you will be able to view the collected information at the site but will have to spend some time to change the chart and pen periodically.

(3) Make sure that you've chosen the right kind of sensors. There are different types of sensors for different temperature levels. For high temperature applications a thermocouple is most often used.

(4) Have the sensors calibrated by a calibration service – a high temperature data logger is only as good as the information it gets.

(5) Remember to set the proper sample rate. It can vary depending on what process you are monitoring. It can make a large difference if you are sampling temperature once every 15 seconds rather than once an hour.

(6) Most all data loggers store information digitally where as chart recorders record information in an analog format. This may not matter to you but might make a difference. Temperature chart recorders – use "paper-and-pencil" to record the temperature and their mechanical mechanisms are subject to wear and tear and will eventually fail and require repair or replacement.